

Goode, Teresa

From: Johnson, Chris <chris.johnson@ncdenr.gov>
Sent: Monday, July 03, 2017 4:04 PM
To: Perez, Helen I; West, Steve; Gregson, Jim
Cc: Strynar, Mark
Subject: EPA samples for this week

EPA gave us one set of QC samples this week. Three will be coming in from Fayetteville and three were sent to TestAmerica. So, you won't be including any of the EPA QC materials this week. Just wanted to let you know so you wouldn't be looking for anything else. Thanks.

Chris Johnson
Environmental Program Supervisor
Water Sciences Section / Organic Chemistry Branch

North Carolina Department of Environmental Quality
Division of Water Resources

919-733-3908 office

4405 Reedy Creek Road
Raleigh, NC 27607

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Goode, Teresa

From: Johnson, Chris <chris.johnson@ncdenr.gov>
Sent: Thursday, July 06, 2017 1:50 PM
To: Strynar, Mark
Subject: FW: Sample Analysis - Chemours Fayetteville, NC

Mark, did I respond sufficiently to the inquiry below? I didn't want to pull you into the email string. Thanks.

Chris Johnson
NC DEQ-DWR
Water Sciences Section

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From: Johnson, Chris
Sent: Thursday, July 06, 2017 1:49 PM
To: 'JOHNSON, MICHAEL E' <MICHAEL.E.JOHNSON@chemours.com>
Subject: RE: Sample Analysis - Chemours Fayetteville, NC

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1. Was the trip blank spiked with anything?
2. Was the spike blank spiked with anything except the C3 acid dimer?

Thanks!

Mike

Michael E. Johnson, PE
Environmental Manager
Chemours Company – Fayetteville Works
(910) 678-1155



The Chemours Company FC, LLC
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

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Goode, Teresa

From: Strynar, Mark
Sent: Thursday, July 06, 2017 4:09 PM
To: Medina-Vera, Myriam; Buckley, Timothy
Cc: McCord, James
Subject: FW: Sampling

FYI,

I just got off of a call with Chris Johnson. It seems the NCDEQ people would like to do one more round of sampling per a request from Chemours. It seems that in the Week one sampling they were surprised by the high results. That would mean a week 4 sampling excursion mid to late next week at both Fayetteville and Wilmington locations. I told him we could handle the capacity but I would be away and those results may be delayed. I think James can handle it but I wanted to let you know. I don't see any reason why we cannot do these samples. It is still below the 50 we agreed we could do. I think we can still hit the deadline for the Week1-3 samples. Not sure about week number 4.

Thus I need to give Chris QC samples for Test America and for our efforts when he arrives tomorrow.

I will come to chat with you.

Mark

From: Johnson, Chris [mailto:chris.johnson@ncdenr.gov]
Sent: Thursday, July 06, 2017 3:02 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: Sampling

Mark, I just finished a call with Linda Culpepper and the Supervisors of the Fayetteville and Wilmington regional offices. We want to do one more sampling event for the Fayetteville sites (three sites) next week on Wednesday or Thursday. This is to get another result for the upstream sample since it was only done in weeks 2 and 3. Is that doable from your end? If so, we would need another set of the QC samples if you so desire. Samples will also be going to TestAmerica once again, so we would need a QC set for them as well. We have additional sample containers available from the set you provided, so we won't need those this time. Let me know if all this is acceptable for your laboratory. Thanks.

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From: Strynar, Mark
Sent: Thursday, June 29, 2017 1:08 PM
To: Medina-Vera, Myriam; Buckley, Timothy; Tong-Argao, Sania
Cc: McCord, James; Newton, Seth; Lang, Johnsie
Subject: NC DEQ samples update

Here is an update on NC DEQ samples:

- 1) Week 1 sample event water has been processed and should be put on the UPLC-MS/MS tonight.
- 2) Week 2 samples have not yet been received. They samples are due to the NC DEQ office in Raleigh via courier today. They are set to be delivered to our lab next Monday July 3rd for analysis.
- 3) Week 3 samples are set to be collected on July 3rd (Fayetteville area) and July 6th (Wilmington area). I asked Chris Johnson to get those samples to us asap due to a pending family vacation I have on July 11-20th.
- 4) QA/QC samples that were prepared last week for Week 2 sampling are going to come back in the Week 2 sampling event to EPA; a second QA/QC set I prepared is currently in route to Test America.
- 5) Blind QA/QC samples were prepared by a 3rd independent party (Adam Swank NHEERL) to be included in the Week 3 sampling. Common QA/QC samples will both go to Test America and come back to the EPA. Chris Johnson and his QA Manager just left with these QA/QC samples and additional empty bottles for the Week 3 sampling event.
- 6) Sania has been doing some technical audits of the SOP being performed and observed. She will be getting me comments to include in our SOP for this analysis. The QA staff deemed a separate QAPP rather than an addendum was needed for this project. I am working toward completing this in between analysis.
- 7) The complete method validation of GenX (and 4 other PFECAs) has been done (thanks to James McCord, Seth Newton and Johnsie Lang) and the samples are also set to be injected on the UPLC-MS/MS tonight. This info will be added to the SOP as performance criteria in tap water, waste water and surface water.

I may have forgotten something but that is my recollection of where we are right now.

Thanks,
Mark

Dr. Mark J. Strynar
Physical Scientist
US EPA
National Exposure Research Laboratory
919-541-3706
Strynar.mark@epa.gov

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To: Strynar, Mark; Perez, Helen I; West, Steve; Gregson, Jim
Subject: RE: EPA samples for this week

Thanks for the update, Mark.

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FYI,

We just got week #2 samples on our UPLC-MS/MS. Should have that data by Wednesday. Many samples exceeded our calibration curve of 250 ng/L from week 1. We had to dilute most 5x and the Chemours outfall 20x for analysis.

We will keep you updated. Have a safe holiday.

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From: Lindstrom, Andrew
Sent: Friday, June 30, 2017 9:06 AM
To: Maddaloni, Mark; Buckley, Timothy; Strynar, Mark
Subject: RE: PFAS in Cape Fear Drinking Water NC / R4 / NERL Collaboration
Attachments: Resnik & Wing 2007.pdf

Tim,

Following up on Mark's comment here, I think we (EPA) need to quickly find out if OW is working on an HA for GenX and at least go public with the fact that they are/are not working on it. OW should be issuing a statement on this.

We need to take charge of the narrative. Did we learn anything from CHEERS?

Also, I think we need to participate in public briefings where we – the authors of the Sun et al. paper - answer questions with NC DEQ and other appropriate policy folks. If we don't do what we can to work with this community on this issue we will lose the trust of the people we serve.

I know we (at the NERL level) may not have much influence on these things. I'd just like to hear my management say the right thing.

Please let me know if I can help in any way.

Thank you,

Andy

From: Maddaloni, Mark
Sent: Friday, June 30, 2017 8:42 AM
To: Buckley, Timothy <Buckley.Timothy@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>; Sivertsen, Scott <Sivertsen.Scott@epa.gov>; Johnson, Chris <chris.johnson@ncdenr.gov>; Allenbach, Becky <Allenbach.Becky@epa.gov>; linda.culpepper@ncdenr.gov; helen.perez@ncdenr.gov; nick.jones@ncdenr.gov; cyndi.karoly@ncdenr.gov; dana.satterwhite@ncdenr.gov; mark.brantley@ncdenr.gov; morella.sanchez-king@ncdenr.gov; Hall, Renea <Hall.Renea@epa.gov>; France, Danny <France.Danny@epa.gov>; Risen, Amy J <Amy.Risen@dhhs.nc.gov>; Shehee, Mina <mina.shehee@dhhs.nc.gov>; Langley, Rick <rick.langley@dhhs.nc.gov>; Sink, Marla <Marla.Sink@ncdenr.gov>; Munger, Bridget <bridget.munger@ncdenr.gov>; Smith, Emily J. <Smith.Emily@epa.gov>; Newton, Seth <Newton.Seth@epa.gov>; Maguire, Megan <Maguire.Megan@epa.gov>; Tong-Argao, Sania <Tong-Argao.Sania@epa.gov>
Cc: Hubbard, Carolyn <Hubbard.Carolyn@epa.gov>; Gregson, Jim <jim.gregson@ncdenr.gov>
Subject: RE: PFAS in Cape Fear Drinking Water NC / R4 / NERL Collaboration

Thanks, Tim. Will the "Communications Plan" include a discussion of health-based benchmarks for GenX in drinking water to compare sampling results against?

-----Original Appointment-----

From: Buckley, Timothy
Sent: Thursday, June 29, 2017 5:14 PM
To: Strynar, Mark; Lindstrom, Andrew; Medina-Vera, Myriam; Sivertsen, Scott; Johnson, Chris; Allenbach, Becky;

linda.culpepper@ncdenr.gov; helen.perez@ncdenr.gov; nick.jones@ncdenr.gov; cyndi.karoly@ncdenr.gov; dana.satterwhite@ncdenr.gov; mark.brantley@ncdenr.gov; morella.sanchez-king@ncdenr.gov; Maddaloni, Mark; Hall, Renea; France, Danny; Risen, Amy J; Shehee, Mina; Langley, Rick; Sink, Marla; Munger, Bridget; Smith, Emily J.; Newton, Seth; Maguire, Megan; Tong-Argao, Sania
Cc: Hubbard, Carolyn; Gregson, Jim
Subject: PFAS in Cape Fear Drinking Water NC / R4 / NERL Collaboration
When: Wednesday, July 05, 2017 2:30 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: [REDACTED]

Feel free to offer additional agenda items if I have left something important out.

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- Sampling Update
 - Addition of Fayetteville
 - Samples delivered
 - Samples analyzed
 - Incorporation of performance standards
 - Extending the sampling period
- QAPP Progress
 - Sampling
 - Laboratory
- Results status
- Communications Plan Status
- Scheduling next meeting

Notes / Follow-up from Linda Culpepper following 6/27 conference call

Follow up items from today's conf. call:

- Regional staff have GPS coordinates for sampling locations. Will send an email with those from the Wilmington area. Mark - please send those for the Fayetteville area.
- Mark Brantley knows we also want a sample from the City of Fayetteville water intake on Monday. Mark - appreciate you making arrangements in advance.
- Chemours production staff will be onsite Monday July 3rd and production processes will be active, but some of the other staff will not be at the plant. Arrangements are being made for Mark to get access to outfall 002 for sampling. Test America will not be open July 4th. Due to their requirement to ice the samples, the samples from July 3rd will be held at the Fayetteville Regional Office in the lab refrigerator until Weds. July 5th at which time they will be shipped to Test America in ice. We will include that description in the QAPP and note on the Chain of Custody.
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- Test America is only reporting results for GenX - HFPO dimer acid.
- Chris Johnson brought up the concept of getting production samples from the site. Michael Johnson will ask his management. We let Michael know we were going to take the upriver sample and Chris indicated that sample will help us know what they may be bringing into the plant and help understand the effluent leaving the plant. Chris indicated having the production samples will help verify we are analyzing for the correct chemicals. Becky - know you were going to see if

the EPA TSCA inspectors could/would take production process samplings. Wanted to give you a heads up about our conversation.

- I will get refinement on DEQ and DHHS contacts for collaboration on future sampling/analysis concepts during our Weds morning call with DEQ & DHHS. Look forward to those planning discussions.
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Water Sciences Section

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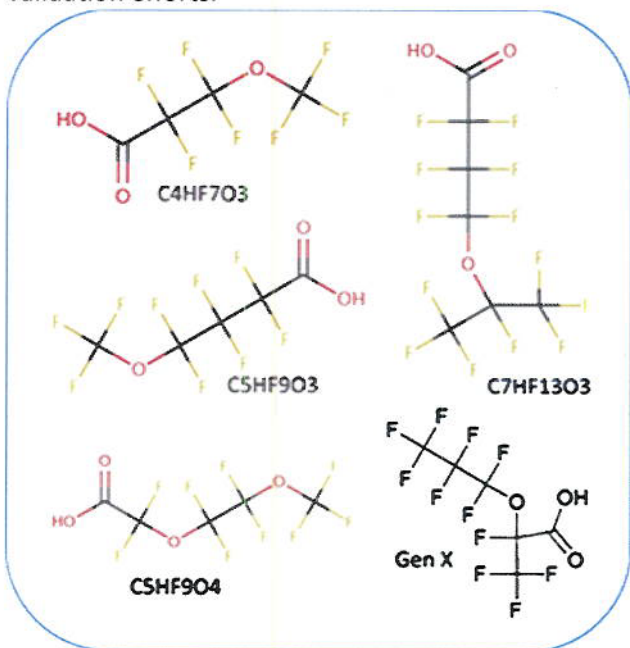
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If we are referring to the trip spikes and blanks made up for the week 2 sampling:

This is correct: The Trip Blank is only DI water (with HNO₃ preservative)

The spike blank(s) have the C3 acid dimer and (four) additional polyfluorinated compounds (also HNO₃ preserved.) at a low and a high concentration in the range of 10 to 250 ng/L.

If they are interested here is what was spiked in. The chemical other than the C3 acid dimer were for my own lab validation efforts.



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Michael E. Johnson, PE
Environmental Manager
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(910) 678-1155



The Chemours Company FC, LLC
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

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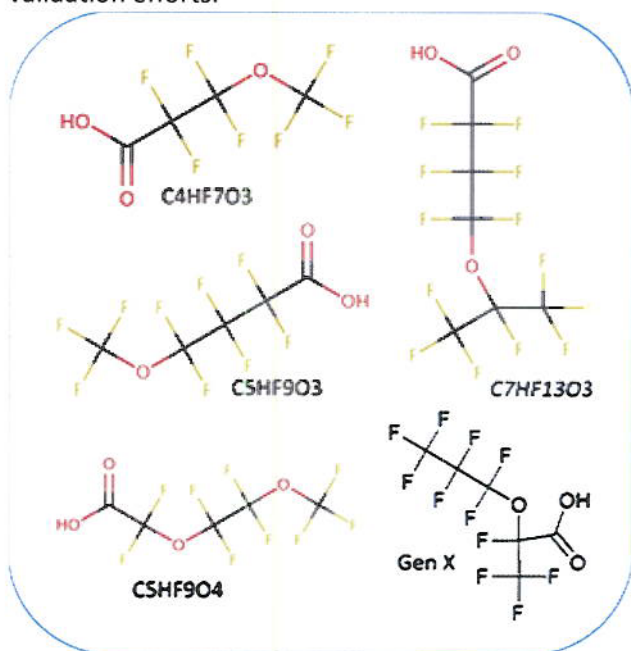
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Mike

Michael E. Johnson, PE
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Goode, Teresa

From: Johnson, Chris <chris.johnson@ncdenr.gov>
Sent: Thursday, June 29, 2017 3:08 PM
To: Perez, Helen I
Cc: Huffman, David J; Satterwhite, Dana; Strynar, Mark
Subject: RE: Sampling at International Paper raw intake

Acknowledged. Thanks, Helen.

Chris Johnson
NC DEQ-DWR
Water Sciences Section

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From: Perez, Helen I
Sent: Thursday, June 29, 2017 2:28 PM
To: Johnson, Chris <chris.johnson@ncdenr.gov>
Subject: Sampling at International Paper raw intake

Chris,

Wanted to explain our procedure at International Paper raw sample site. We used their sampling pole (NASCO) with a clean wide-mouthed HDPE liter bottle at the end to use as a primary sampler. We rinsed the primary sampler three times with sample water before use. We also rinsed the sample bottles three times with sample water before the final sample was retained.

Helen Perez
Environmental Specialist
Water Quality Regional Operations Section
Division of Water Resources
Department of Environmental Quality

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Goode, Teresa

From: Strynar, Mark
Sent: Thursday, July 06, 2017 4:22 PM
To: Buckley, Timothy; Medina-Vera, Myriam
Cc: McCord, James
Subject: RE: Sampling

Not on my comments. Apparently Test America results were given to Chemours and they were surprised.

Mark

From: Buckley, Timothy
Sent: Thursday, July 06, 2017 4:19 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>
Cc: McCord, James <mccord.james@epa.gov>
Subject: RE: Sampling

Is he basing "high" levels on your comments or have they seen Test America results. Either way, I agree that we can accommodate. We need to talk about timeline and whether we report in batches.

Tim

Timothy J. Buckley, PhD
Director of the Exposure Methods & Measurements Division
National Exposure Research Laboratory
109 TW Alexander Drive
Research Triangle Park, NC 27711

Email: buckley.timothy@epa.gov
URL: <http://www.epa.gov/heasd/staff/buckley.html>
Phone: (919) 541-2454 (O); FAX: -0239
(919) 308-3480 (C)

From: Strynar, Mark
Sent: Thursday, July 06, 2017 4:09 PM
To: Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>; Buckley, Timothy <Buckley.Timothy@epa.gov>
Cc: McCord, James <mccord.james@epa.gov>
Subject: FW: Sampling

FYI,

I just got off of a call with Chris Johnson. It seems the NCDEQ people would like to do one more round of sampling per a request from Chemours. It seems that in the Week one sampling they were surprised by the high results. That would mean a week 4 sampling excursion mid to late next week at both Fayetteville and Wilmington locations. I told him we could handle the capacity but I would be away and those results may be delayed. I think James can handle it but I wanted to let you know. I don't see any reason why we cannot do these samples. It is still below the 50 we agreed we could do. I think we can still hit the deadline for the Week1-3 samples. Not sure about week number 4.

Thus I need to give Chris QC samples for Test America and for our efforts when he arrives tomorrow.

I will come to chat with you.

Mark

From: Johnson, Chris [<mailto:chris.johnson@ncdenr.gov>]

Sent: Thursday, July 06, 2017 3:02 PM

To: Strynar, Mark <Strynar.Mark@epa.gov>

Subject: Sampling

Mark, I just finished a call with Linda Culpepper and the Supervisors of the Fayetteville and Wilmington regional offices. We want to do one more sampling event for the Fayetteville sites (three sites) next week on Wednesday or Thursday. This is to get another result for the upstream sample since it was only done in weeks 2 and 3. Is that doable from your end? If so, we would need another set of the QC samples if you so desire. Samples will also be going to TestAmerica once again, so we would need a QC set for them as well. We have additional sample containers available from the set you provided, so we won't need those this time. Let me know if all this is acceptable for your laboratory. Thanks.

Chris Johnson

Environmental Program Supervisor

Water Sciences Section / Organic Chemistry Branch

North Carolina Department of Environmental Quality
Division of Water Resources

919-733-3908 office

4405 Reedy Creek Road
Raleigh, NC 27607

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